WHAT IS CLAIMED IS:

1. (twice amended): In an expandable stent, wherein said stent has a plurality of interconnected, solid members, and wherein said interconnected, solid members form flexion points where two or more of said members interconnect, whereby <u>each of</u> said members <u>has a cross-sectional width and a thickness and said members</u> flex relative to each other as said stent expands, the improvement comprising:

an array of relief cut means formed in some of said interconnected, solid members at or near said flexion points, said relief cut means extending completely through said members, whereby said members flex more easily as said stent expands than without said relief cut means, and wherein each of said relief cut means is sufficiently small that the columnar compressive strength of said interconnected members is not significantly reduced by the presence of said relief cut means formed therein is a hole having transverse dimensions less than said cross-sectional width of said interconnected members where said hole is formed.

- 2. (original): The apparatus of claim 1 wherein said stent is a balloon expandable stent.
- 3. (original): The apparatus of claim 2 wherein said stent has distal and proximal ends and a central section, and wherein said relief cut means are formed only in said distal and proximal ends.
- 4. (original): The apparatus of claim 2 wherein said stent has distal and proximal ends and a central section, and wherein said relief cut means are formed only in said central section.
- 5. (original): The apparatus of claim 2 wherein said interconnected members of said stent have cross sections wherein the width is greater than the thickness.
- 6. (original): The apparatus of claim 5 wherein said width is between 1.5 and 5 times as great as said thickness.

 7. (canceled)

- 8. (original): The apparatus of claim 7 wherein said holes are circular.
- 9. (original): The apparatus of claim 7 wherein said holes are elliptical.
- 10. (canceled)
- 11. (original): The apparatus of claim 1 wherein said stent is a self-expandable stent.
- 12. (original): The apparatus of claim 1 wherein said relief cuts are applied to said stent in patterns to allow controlled, non-uniform expansion of said stent.
- 13. (twice amended): In an expandable stent having a plurality of cells and said stent is movable between a retracted and an expanded position, wherein said cells are formed by a plurality of flexible, interconnected solid members, wherein said members <u>have a thickness</u> and a cross-sectional width and form flexion points where two or more of said members interconnect, said members flexing relative to each other as said stent expands, the improvement comprising:

an array of relief cut means formed in some of said solid members at or near said flexion points, said relief cut means extending <u>completely</u> through said solid members to cause said members to flex more easily than without said relief cut means being formed therein and wherein each of said relief cut means is <u>sufficiently small</u> so that the columnar compressive strength of said members is not significantly reduced a circular or oval hole wherein the transverse dimension of said hole measured in any direction across said hole is less than the cross-sectional width of said solid member where said hole is formed.

- 14. (original): The apparatus of claim 13 wherein said stent is a balloon-expandable stent.
- 15. (original): The apparatus of claim 13 wherein said interconnected members have cross sections wherein the width is between 1.5 and 5 times as great as the thickness.

- 16. (previously added): The apparatus of claim 13 wherein the cross-sectional width of said interconnected members is the same at said flexion points as it is between said flexion points.
- 17. (previously added): The apparatus of claim 1 wherein the cross-sectional width of said interconnected members is the same at said flexion points as it is between said flexion points.